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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/873,645	06/04/2001	Paul D. Taylor	P-633	4460
25732 7590 09/27/2006		EXAMINER		
KEITH JOHNSON, ESQ. TRANSGENOMIC, INC.			CLOW, LORI A	
12325 EMMETT STREET			ART UNIT	PAPER NUMBER
OMAHA, NE 68164			1631	
			DATE MAILED: 09/27/2006	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/873,645	TAYLOR ET AL.				
Office Action Summary	Examiner	Art Unit				
	Lori A. Clow, Ph.D.	1631				
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR F WHICHEVER IS LONGER, FROM THE MAILII - Extensions of time may be available under the provisions of 37 of after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI CFR 1.136(a). In no event, however, may a ion. period will apply and will expire SIX (6) MON a statute, cause the application to become Al	CATION. reply be timely filed ITHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on	26 July 2006.					
	This action is non-final.					
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closed in accordance with the practice ur						
Disposition of Claims						
4)⊠ Claim(s) <u>13-16</u> is/are pending in the appl	ication.					
• • • • • • • • • • • • • • • • • • • •	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13-16</u> is/are rejected.	· · · 					
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	aminer.					
10) The drawing(s) filed on is/are: a)		by the Examiner.				
Applicant may not request that any objection						
Replacement drawing sheet(s) including the	correction is required if the drawing	(s) is objected to. See 37 CFR 1.121(d).				
11) The oath or declaration is objected to by t	the Examiner. Note the attache	d Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a laim for for for a laim for	oreign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
	·					
<u> </u>						
3. Copies of the certified copies of the	e priority documents have beer	received in this National Stage				
application from the International E	Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for	a list of the certified copies not	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94) 3) Information Disclosure Statement(s) (PTO/SB/08) 		s)/Mail Date nformal Patent Application				
Paper No(s)/Mail Date	6) Other:					

Application/Control Number: 09/873,645

Art Unit: 1631

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicants' response, filed 26 July 2006, has been fully considered. Rejections and/or objections not reiterated from previous office actions are hereby withdrawn. The following rejections and/or objections are either reiterated or newly applied. They constitute the complete set presently being applied to the instant application.

Claims 13-16 are currently pending. Claims 1-12 and 17-27 have been cancelled.

Claim Rejections - 35 USC § 101

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 13-16 are rejected under 35 U.S.C. 101 because the claimed invention is not supported by either a specific, substantial asserted utility or a well-established utility.

Claims 13-16 are drawn to a system for computer implemented adjustment of signal data and time data of chromatographic elution profiles. The claims are directed more specifically to a series of mathematical steps comprising plotting data sets, selecting time points, adjusting a baseline, normalizing peaks, and shifting profiles so that certain values can be used to group elution profiles. The specification does provide a utility for utilizing the shifted profiles to

generate values that are utilized for comparison to controls in order to detect mutations.

However, the specification does not set forth an asserted utility for merely shifting profiles that can be used to group elution profiles. One of skill in the art would not know what to do with the elution profiles generated, as there is no specific utility set forth for the profiles themselves. The utility asserted in the specification therefore, is not commensurate with what is claimed.

Claims 13-16 also rejected under 35 U.S.C. 112, first paragraph. Specifically, since the claimed invention is not supported by either a specific, substantial asserted utility or a well established utility for the reasons set forth above, one skilled in the art clearly would not know how to use the claimed invention.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 13-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 13 recites "shifting each of the profiles along said first axis such that all of the profiles intersect at a pre-selected point on the last eluting peak of each profile within said time span so that values from the plurality of chromatographic elution profiles can be used to group the plurality of chromatographic elution profiles". It is unclear whether or not the processor of claim 13 actually is grouping the elution profiles or if the processor is merely shifting the profiles. Grouping appears to be an intended result. Clarification is requested.

Application/Control Number: 09/873,645

Art Unit: 1631

No claims are allowed.

Note: If Applicants desire further discussion and clarification of the rejections and issues herein,

Applicant's are strongly encouraged to request an interview with the Examiner.

Inquiries

Papers related to this application may be submitted to Technical Center 1600 by facsimile transmission. Papers should be faxed to Technical Center 1600 via the PTO Fax Center. The faxing of such papers must conform with the notices published in the Official Gazette, 1096 OG 30 (November 15, 1988), 1156 OG 61 (November 16, 1993), and 1157 OG 94 (December 28, 1993) (See 37 CFR § 1.6(d)). The Central Fax Center Number is (571) 273-8300.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lori A. Clow, Ph.D., whose telephone number is (571) 272-0715. The examiner can normally be reached on Monday-Friday from 10 am to 6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Wang can be reached on (571) 272-0811.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

September 25, 2006 Lori A. Clow, Ph.D. Art Unit 1631

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